

ABSTRACT OF THE DISCLOSURE

In a bandwidth-limiting apparatus, control is performed of the oscillation frequencies of each of three local oscillators of three intermediate-frequency circuits, and the passband is limited by adjusting the width of and shifting the IF, the intermediate frequency at the last stage being converted by a frequency conversion means to a low frequency suitable for processing, which is then bandwidth limited by a filter function of a digital signal processor. Control of each passband is performed in linked fashion by control stored in a microcomputer circuit, and the sharp shape factor of the digital signal processor is effectively used to eliminate noise from the deviation passband. Because noise is eliminated before the detection stage, there is no cause for the intrusion of wraparound noise, thereby eliminating the necessity to perform excessive bandwidth limiting.